

Material Safety Data Sheet



Page: 1 of 4

Infosafe No. SHWAJ Issue Date : April 2005 ISSUED by SHINAGAW

Product Name : **PURE ALUMINA CEMENT 961**

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name PURE ALUMINA CEMENT 961
Product Code DAF.PA 9611
Product Use A bonding and coating for furnace linings.
Company Name Shinagawa Refractories Australasia Pty Ltd (ABN 082 371 891)
Address PO Box 1035 Unanderra
NSW 2526 Australia
Emergency Tel. 131126 (PIC)
Telephone/Telex Number Tel: (02) 4222 3840 Fax: (02) 42211731

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion
	Alumina	1344-28-1	0-59.99 %
	Alumina, calcined	1344-28-1	10-30 %
	Bentonite		0-9.99 %
	Core Gum		0-0.99 %

3. HAZARDS IDENTIFICATION

4. FIRST AID MEASURES

Inhalation Remove victim to fresh air. Seek medical advice if effects persist.
Ingestion Rinse mouth thoroughly with water immediately. Seek medical advice.
Skin Wash with plenty of soap and water. If irritation occurs seek medical advice.
Eye Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
First Aid Facilities Eye wash station, safety shower and normal washroom facilities.
Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

This product is non flammable and non explosive.

Extinguishing Media In case of fire in the surrounding areas, all extinguishing agents allowed.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Sweep up, but avoid generating dust. Wear an appropriate respirator. Comply with all local, federal and state regulations if disposing.
Environmental Precautions This product is not especially harmful to the environment.

7. HANDLING AND STORAGE

Storage In storage, keep free from rain and water.
No special storage or transport requirements necessary.

Material Safety Data Sheet



Page: 2 of 4

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Alumina			15		Respirable dust
	Alumina, calcined			15		Respirable dust

Respiratory Protection A half-face (P1 or P2) respirator should be worn during work in enclosed or poorly ventilated spaces, or where evidence suggests that dust levels may exceed the exposure standard. All respiratory devices should be tested for compliance with AS/NZS 1715 & AS/NZS 1716.

Eye Protection Safety glasses, goggles or faceshield as appropriate.

Hand Protection Leather gloves.

Footwear Safety boots with reinforced, protective toecaps.

Body Protection Overalls or similar protective apparel.

Eng. Controls Use good ventilation, mechanical if necessary, to maintain low dust levels; use a dust mask if the situation requires.

Hygiene Measures Wash hands before eating, drinking or smoking. Launder contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off white, fine powder
Odour	None
Melting Point	Not applicable
Boiling Point	Not applicable
Vapour Pressure	Not applicable
Flammability	Non flammable

10. STABILITY AND REACTIVITY

Stability	This product is stable under normal conditions.
Hazardous Reaction	This product is not considered to be flammable but the action of heat may cause a variety of organic decomposition products to be formed, some of which may be hazardous.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	<p>The most recent review of the scientific evidence on the hazard to human health of silica was undertaken by the International Agency for Research on Cancer (IARC) in 1996, to update its 1987 monograph, and published in June 1997:</p> <p>There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. There is inadequate evidence in humans for the carcinogenicity of amorphous silica.</p> <p>There is sufficient evidence in experimental animal studies for the carcinogenicity of quartz and cristobalite.</p> <p>There is inadequate evidence in experimental animal studies for the carcinogenicity of synthetic amorphous silica.'</p> <p>This product is a Alumino-Silicate material, in service this material may see temperatures sufficiently high enough (>980 deg.C) to partially transform the silica present to a crystalline form.</p>
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Material Safety Data Sheet



Page: 3 of 4

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Inhalation	May cause respiratory discomfort.
Ingestion	Not known.
Skin	May cause irritation or discomfort to sensitive skins.
Eye	May cause irritation or discomfort to eyes.
Chronic Effects	Minimise the generation of dust during demolition and avoid excessive inhalation of nuisance dusts by wearing an SAA approved dust respirator. Long term exposure to dusts can cause lung damage.

Other Information

12. ECOLOGICAL INFORMATION

Environ. Protection This product is not considered to be harmful to the environment under normal conditions.

13. DISPOSAL CONSIDERATIONS

Waste Disposal If waste generated cannot be reused, dispose of in an authorised landfill site complying with all local, federal and state regulations.

14. TRANSPORT INFORMATION

No special requirements.

U.N. Number None Allocated

DG Class None Allocated

Hazchem Code None Allocated

Packing Group None Allocated

15. REGULATORY INFORMATION

16. OTHER INFORMATION

DEMOLITION:

Personal Protective Equipment should include dust mask (P1/P2), safety glasses, boots and leather gloves. If dust levels are excessive then mechanical ventilation should be used to reduce them. Note that this product contains small amounts of crystalline silica, which may change form during service at elevated temperatures. Removal of these materials during demolition can generate respirable dusts containing small amounts of crystalline forms of silica; repeated/prolonged inhalation of these dusts can cause pulmonary fibrosis.

Material being demolished may have absorbed waste material from the metallurgical or heat containment process, and the nature and quantity of this should be considered when work practices are determined. Demolished material may usually be disposed of in an approved landfill, but consider any extraneous matter derived from the process and comply with all federal, state and local regulations.

Material Safety Data Sheet



Page: 4 of 4

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This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace.

Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Shinagawa Refractories Australasia Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Any Technical information must be considered as proprietary and treated as confidential.

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...End Of MSDS...